



LIST OF COURSES TAUGHT IN ENGLISH -

Semester 1: Autumn
Semester 2: Spring

*B, Bachelor (1st cycle); M, Master (2nd cycle); M5, 5-year single cycle Master Programmes

	Degree Programme (B, M, M5)*	Course unit code	Course unit title	Teacher's name	N. hours	Number of ECTS	Year	Semester
FACULTY OF ECONOMICS, LAW AND POLITICAL SCIENCES								
1.	Business and Economics (B)	EC/0087	Macroeconomics	MATTA Stefano	54	9	2-3	1
2.	Business and Economics (B)	EC/0088	International accounting	MURA Alessandro	54	9	2-3	1
3.	Business and Economics (B)	EC/0090	International law and labour relation	LOI Piera	36	6	2-3	2
4.	Business and Economics (B)	EC/0091	Management	<i>To be defined</i>	54	9	2-3	2
5.	Management (M)	13105	Corporate governance	MELIS Andrea	54	9	1	2
6.	Management (M)	EC/0007	Comparative corporate law	SCANO Dionigi	36	6	1	1
7.	Management (M)	EC/0008	Public Management	SPANO Alessandro	36	6	1	1
8.	Management (M)	EC/0083	Advanced corporate finance	PIRAS Luca	36	6	1	1
9.	Management (M)	EC/0006	Innovation management	CASTRIOTTA Manuel	54	9	1	2
10.	Management (M)	EC/0084	Business communication	CABONI Federica	54	9	1	2
11.	Management (M)	EC/0012	Quantitative methods for management	<i>To be defined</i>	54	9	2	1
12.	Management (M)	EC/0011	International economics	PIGLIARU Francesco	36	6	2	2



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13.	Management (M)	EC/0085	Applied economics	USAI Stefano (4,5 ECTS) + <i>To be defined (4,5 ECTS)</i>	54	9	2	1
14.	Management (M)	9603	English (strengthening B2 Level)	<i>To be defined</i>	18	3	2	1
15.	Management (M)	4932	International Marketing	CABIDDU Francesca	36	6	2	2
16.	Management (M)	EC/0086	International financial reporting	MURA Alessandro (4,5 ECTS) + <i>To be defined(4,5 ECTS)</i>	36	6	2	2
17.	Sustainable Tourism Management and Monitoring (M)	SE/0004	Information system and DBMS	<i>To be defined</i>	54	9	2	1
18.	Sustainable Tourism Management and Monitoring (M)	EC/0052	International Standards and Tourism Indicators Monitoring	MODICA Patrizia	54	9	2	1
19.	Sustainable Tourism Management and Monitoring (M)	EC/0053	Spatial Tourism Data Analysis	CANNAS Massimo	36	6	2	1
20.	Sustainable Tourism Management and Monitoring (M)	EC/0054	International Environmental Law and Policy	AMOROSO Daniele	36	6	2	2
21.	International Relations (M)	SP/0071	Economics of globalization*	PINNA Anna Maria	36	6	1	2
22.	International Relations (M)	2/61/067	European Integration	ROSSI Christian	54	9	2	1
23.	International Relations (M)	SP/0043	Law of international organization	BIAGIONI Giacomo	36	6	2	1
24.	International Relations (M)	SP/0044	Contemporary Africa	SOI Isabella	36	6	2	1



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25.	International Relations (M)	SP/0014	Contemporary China	ONNIS Barbara	36	6	2	2
26.	International Relations (M)	SP/0073	International politics of Asia	ONNIS Barbara	36	6	2	2
27.	International Relations (M)	2/61/049	English Language 2	GIORDANO Michela	54	9	1	1
28.	Economics, Finance and Public Policy (M)	EC/0072	Policy evaluation	DI LIBERTO Adriana	36	6	2	1
29.	Economics, Finance and Public Policy (M)	EC/0073	Economics and geography of innovation	PACI Raffaele , CERINA Fabio	72	12	2	1
30.	Economics, Finance and Public Policy (M)	EC/0070	Risk management and value in banking	DE LISA Riccardo	36	6	2	1
31.	Economics, Finance and Public Policy (M)	EC/0068	Statistical models for portfolio asset allocation	CONVERSANO Claudio	36	6	2	1
32.	Economics, Finance and Public Policy (M)	EC/0071	Financial derivatives and risk management	MRELLA Vincenzo	36	6	2	2
33.	Economics, Finance and Public Policy (M)	EC/0069	Corporate finance	CERINA Fabio	36	6	2	1
34.	Economics, Finance and Public Policy (M)	2146	English Language	<i>To be defined</i>	36	6	1	2
35.	Law (M5)	GI/0010	Transport law	PIRAS Massimiliano	48	6	4	2
36.	Law (M5)	GI/0014	Comparative contract law	MANCALEONI Anna Maria	48	6	3	2



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FACULTY OF BIOLOGY AND PHARMACY								
37.	Pharmaceutical Chemistry and Technology(M5)	FA/0210/EN	Pharmacotherapy	MORELLI Micaela	64	8	5	1
38.	Pharmaceutical Chemistry and Technology(M5)	FA/0226/EN	Experimental Pharmacology	SIMOLA Nicola	76	8	4	2
39.	Pharmacy (M)	FA/0215/EN	Pharmacotherapy 1	MORELLI Micaela	64	8	5	1
40.	Neuropsychobiology (M)	FA/0172/EN	Experimental Model of Animal Behaviour	DAZZI Laura	36	3	2	2
41.	Preservation and Management of Natural Resources and the Environment (M)	BF/0013/EN	Regional Geology	COSTAMAGNA Luca	56	6	1	2
42.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0034/EN	Bioinformatics	CALÒ Carla Maria, GRANDI Nicole, DISTINTO Simona	84	9	1	1
43.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0040/EN	English	<i>To be defined</i>	24	3	1	1
44.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0035/EN	Advanced Biological Methodologies	CESARE Marincola Flaminia, PIANO Dario, MANCONI Barbara, CABRAS Tiziana	80	9	1	1
45.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0036/EN	Metabolic Biochemistry	OLIANAS Alessandra, PINTUS Francesca	60	7	1	1
46.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0037/EN	Molecular Virology	TRAMONTANO Enzo	64	7	1	2
47.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0038/EN	Evolutionary Genomics	FRANCALACCI Paolo	64	7	1	2
48.	Cellular and Molecular Biology (M) <i>curriculum Advanced cellular studies</i>	BF/0039/EN	Basis of Scientific Methodology	PUSCEDDU Antonio, FRIGAU Luca	56	7	1	2



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FACULTY OF ENGINEERING AND ARCHITECTURE								
49.	Chemical and Biotechnological Process Engineering (M)	IN/0240/EN	Process modeling and simulation	BARATTI Roberto GROSSO Massimiliano	90	9	2	1
50.	Chemical and Biotechnological Process Engineering (M)	IA/0187/EN	Chemical and Biotechnological Reactors	CINCOTTI Alberto	90	9	2	1
51.	Chemical and Biotechnological Process Engineering (M)	IN/0241/EN	Advanced systems of process control	TRONCI Stefania GROSSO Massimiliano	90	9	2	2
52.	Chemical and Biotechnological Process Engineering (M)	IA/0188/EN	Safety and Environmental Chemical Engineering with Design Project	<i>To be defined</i>	120	12	2	1
53.	Electronic Engineering (M)	IA/0125/EN	Advanced embedded systems	MELONI Paolo	80	8	2	1
54.	Electronic Engineering (M)	IA/0205/EN	Artificial intelligence	FUMERA Giorgio	60	6	2	1
55.	Electronic Engineering (M)	IA/0152/EN	Biosensors and bioelectronics	<i>To be defined</i>	60	6	2	2
56.	Electronic Engineering (M)	IA/0146/EN	Mixed-signal circuits and systems	BARBARO Massimo <i>Da definire</i>	60	6	2	1
57.	Electronic Engineering (M)	IA/0154/EN	Nanoelectronics	FILIPPETTI Alessio	50	5	1	1
58.	Electronic Engineering (M)	IA/0148/EN	Cyber-physical system architectures	<i>To be defined</i>	50	5	2	2
59.	Electronic Engineering (M)	IA/0153/EN	Data acquisition technologies	PEGORARO Paolo Attilio CASTELLO Paolo	60	6	2	1
60.	Electronic Engineering (M)	IA/0020/EN	Internet of things	NITTI Michele	60	6	2	1



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61.	Electronic Engineering (M)	IA/0189/EN	Microwave systems and sensors	MONTISCI Giorgio	70	7	2	2
62.	Electronic Engineering (M)	IA/0151/EN	Wearable and flexible electronics	COSSEDDU Piero	70	7	2	1
63.	Electronic Engineering (M)	IA/0147/EN	Analysis and control of cyber-physical systems	GIUA Alessandro	60	6	2	2
64.	Electronic Engineering (M)	IA/0123/EN	Operating systems	GIACINTO Giorgio	70	7	1	1
65.	Electronic Engineering (M)	IA/0149/EN	Optoelectronics, diagnostics and aerospace applications	MURA Giovanna MARTINES Giovanni	70	7	2	1
66.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0205/EN	Artificial intelligence	FUMERA Giorgio	60	6	1	1
67.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0116/EN	Cybersecurity technologies and Risk Management	GIACINTO Giorgio FUMERA Giorgio	100	10	1	2
68.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0113/EN	Industrial software development	BIGGIO Battista , DIDACI Luca	80	8	1	1
69.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0115/EN	Supervisory control and monitoring	SEATZU Carla USAI Elio	90	9	1	1
70.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0117/EN	Fault diagnosis and estimation in dynamical systems	FRANCESCHELLI Mauro	50	5	1	2
71.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0013/EN	Machine learning	ROLI Fabio	60	6	1	2



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72.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0120/EN	Critical infrastructures for innovative power distribution	PILO Fabrizio	20	2	1	2
73.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0119/EN	Industrial informatics for energy storage systems	DAMIANO Alfonso	20	2	1	2
74.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0121/EN	Measurements and cyber security for Smart Grid	PEGORARO Paolo Attilio	20	2	1	2
75.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0123/EN	Operating systems	GIACINTO Giorgio	70	7	1	1
76.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0139/EN	Data driven models for system engineering	MONTISCI Augusto	60	6	1	2
77.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0125/EN	Advanced embedded systems	MELONI Paolo	80	8	2	1
78.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0020/EN	Internet of things	NITTI Michele	60	6	2	1
79.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0131/EN	Biometric technologies and behavioural security	MARCIALIS Gian Luca	50	5	2	2
80.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0129/EN	Computer forensics techniques	<i>To be defined</i>	50	5	2	2
81.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0130/EN	Computer law	<i>To be defined</i>	50	5	2	2
82.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0134/EN	Stochastic models	PILLONI Alessandro	50	5	2	2



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83.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0127/EN	Web security and malware analysis	MAIORCA Davide	60	6	2	1
84.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0140/EN	Networked control systems and security	FRANCESCHELLI Mauro	50	5	2	2
85.	Computer Engineering, Cybersecurity and Artificial Intelligence (M)	IA/0122/EN	Physical-layer techniques for Wireless communication security	MAZZARELLA Giuseppe	60	6	2	1
86.	Electrical Engineering (M)	IA/0139/EN	Data driven models for system engineering	MONTISCI Augusto	60	6	2	2
87.	Internet Engineering (M)	IA/0123/EN	Operating Systems	GIACINTO Giorgio	70	7	1	1
88.	Internet Engineering (M)	IA/0116/EN	Cybersecurity Technologies and Risk Management	GIACINTO Giorgio FUMERA Giorgio	100	10	1	2
89.	Internet Engineering (M)	IA/0134/EN	Stochastic models	PILLONI Alessandro	50	5	1	2
90.	Internet Engineering (M)	IA/0020/EN	Internet of things	NITTI Michele	60	6	2	1
91.	Internet Engineering (M)	IA/0125/EN	Advanced embedded systems	MELONI Paolo	80	8	2	1
92.	Environmental and Land Engineering (M)	IN/0242/EN	Strategic planning	LAI Sabrina	60	6	2	2
93.	Civil Engineering (M)	IA/0209/EN	Computational Mechanics of Structures	EREMEEV Victor	60	6	1	2
94.	Environmental and Land Engineering (M)	IN/0244/EN	Solid waste management	MUNTONI Aldo	90	9	2	1



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95.	Environmental and Land Engineering (M)	IN/0243/EN	Geochemical characterization	VALERA Paolo	60	6	2	1
96.	Environmental and Land Engineering (M)	IN/0245/EN	Control and treatment of atmospheric emissions	CAPPALIO Giovanna	60	6	2	2
97.	Environmental and Land Engineering (M)	IA/0155/EN	Wastewater Treatment Plants	CARUCCI Alessandra CAPPALIO Giovanna	90	9	2	1
FACULTY OF SCIENCES								
98.	Computer Science (M)	SM/0096/EN	Geometric Algorithms and Spatial Data Structures	SCATENI Riccardo	72	9	1	1
99.	Computer Science (M)	SM/0164/EN	Artificial Intelligence: Natural Language Processing	ATZORI Maurizio	48	6	1	2
100.	Computer Science (M)	SM/0121/EN	Network Flows Optimization	DI FRANCESCO Massimo	48	6	2	1
101.	Computer Science (M)	SM/0171/EN	Decision Science	DI FRANCESCO Massimo GORGONE Enrico	72	9	1	2
102.	Computer Science (M)	SM/0124/EN	Big Data	REFORGIATO RECUPERO Diego	48	6	2	1
103.	Physics (M)	SM/0172/EN	Optoelectronics	BONGIOVANNI Giovanni	48	6	2	1
104.	Physics (M)	IA/0154/EN	Nanoelectronics	FILIPPETTI Alessio	48	6	2	1
105.	Physics (M)	SM/0048/EN	Biophysics	CECCARELLI Matteo	48	6	2	1
106.	Physics (M)	60/68/3/EN	Astrophysics	RIGGIO Alessandro	48	6	1	2



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107.	Physics (M)	SM/0179/EN	Molecular Modelling of Biological Systems	VARGIU Attilio Vittorio	48	6	2	2
108.	Physics (M)	SM/0163/EN	Deep Learning and Applications	PUGLISI Giovanni REFORGIATO RECUPERO Diego	48	6	2	1
109.	Physics (M)	SM/0180/EN	Quantum Optics	SIMBULA Angelica	48	6	1	2
110.	Chemical Sciences (M)	SC/0092/EN	Theory and Computation in Physical Chemistry	Parsons Drew Francis	60	6	1	2
111.	Computer Science (M)	SM/0122/EN	Formal Methods	PINNA Giovanni Michele	48	6	2	1
112.	Computer Science (M)	SM/0164/EN	Artificial Intelligence: Natural Language Processing and Understanding	ATZORI Maurizio	48	6	1	2
113.	Computer Science (M)	SM/0121/EN	Network Flow Optimization	DI FRANCESCO Massimo	48	6	2	1
114.	Computer Science (M)	SM/0099/EN	User Interface Technologies	SPANO Lucio Davide	60	6	1	2
FACULTY OF HUMANITIES								
115.	Languages and Cultures for Linguistic Mediation (B)	32/19/041	English Language Translation 1	DENTI Olga(even)	54	9	2	2
116.	Languages and Cultures for Linguistic Mediation (B)	32/19/041	English Language Translation 1	FOIS Eleonora(odd)	54	9	2	2
117.	Languages and Communication (B)	LS/0091	English Language and Communication Skills	FODDE LUISANNA	30	6	3	2



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118.	Modern European and American Languages and Literatures (M)	LS/0117	History and Institutions of the United States of America	<i>To be defined</i>	30	6	1	1
119.	Modern European and American Languages and Literatures (M)	LS/0178	Anglo-American Language and Literatures 1	IULIANO Fiorenzo	60	12	1	2
120.	Texts Translation(M)	32/16/037	Anglo-American Language and Literatures	IULIANO Fiorenzo	30	6	2	2
121.	Languages and Cultures for Linguistic Mediation	32/19/037	Anglo-American Language and Literatures	IULIANO Fiorenzo	60 or 30	12 or 6	2	2
122.	Texts Translation(M)	32/16/042	English Language Translation3	GIORDANO Michela	45	9	2	1

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